

66330-356

05/22/2013

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Rodney Akers  
Arysta LifeScience North America, LLC  
15401 Weston Parkway, Suite 150  
Cary, NC 27513

MAY 22 2013

Subject: Addition of succulent green bean use restrictions and accompanying language  
Acephate 90SP  
EPA Reg. No.: 66330-356  
Submission date: February 6, 2013  
Decision #: 475223

Dear Dr. Akers:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable. A stamped copy is enclosed for your records. Please submit one copy of your final printed labeling before you release the product for shipment. If you have any questions regarding this label, please contact Dr. Jennifer Urbanski at 703-347-0156 or [urbanski.jennifer@epa.gov](mailto:urbanski.jennifer@epa.gov).

Sincerely yours,

A handwritten signature in black ink that reads "Venus Eagle". The signature is fluid and cursive, with a long horizontal line extending to the right.

Venus Eagle  
Product Manager (01)  
Insecticide-Rodenticide Branch  
Registration Division (7505P)

Enclosure- Stamped Label

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# ACEPHATE 90SP

INSECTICIDE in Water Soluble Packets

Active Ingredient	By Wt.
Acephate (O,S-Dimethyl acetylphosphoramidothioate).....	90%
Other Ingredients.....	10%
Total.....	100%

**THIS PRODUCT MAY NOT BE REFORMULATED, REPACKAGED OR RELABELED**

**KEEP OUT OF REACH OF CHILDREN**

### CAUTION

FIRST AID	
Acephate is an organophosphate, cholinesterase inhibitor.	
IF SWALLOWED	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
IF IN EYES	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
IF INHALED	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
NOTE TO PHYSICIAN	
Acephate is a cholinesterase inhibitor. If signs of cholinesterase inhibition appear, atropine is antidotal. 2-PAM may also be used in conjunction with atropine but should not be used alone.	
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
<b>EMERGENCY NUMBERS:</b>	
<b>FOR 24- HOUR EMERGENCY MEDICAL ASSISTANCE CALL: 1-866-303-6952</b>	
<b>FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300</b>	

**For Product Use Information, Call 1-866-761-9397.**

EPA Reg. No. 66330-356

EPA Est. No. 51036-GA-1

NET CONTENTS:

Manufactured For:  
 Arysta LifeScience North America, LLC  
 15401 Weston Parkway, Suite 150  
 Cary, NC 27513

**ACCEPTED**  
**MAY 22 2013**  
 Under the Federal Insecticide, Fungicide,  
 and Rodenticide Act, as amended, for the  
 pesticide registered under:

EPA. Reg. No: 66330-356

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS & DOMESTIC ANIMALS**

**CAUTION**

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Some materials that are chemical-resistant to this product are barrier laminate, butyl rubber, nitrile rubber and viton. If you want more options, follow the instructions for category F on an EPA chemical-resistance category selection chart.

Mixers, loaders, applicators and other handlers using engineering controls must wear:

- Long-sleeved shirt and long pants
- Socks and shoes
- Chemical-resistant gloves for all mixers and loaders and for applicators using hand-held application equipment

In addition, applicators using low pressure hand wand application equipment must wear:

- A NIOSH-approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH-approved respirator with any N, R, P or HE filter.

See engineering controls for additional requirements.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

**ENGINEERING CONTROLS**

Water-soluble packets when used correctly qualify as a closed mixing/loading system under the Worker Protection Standard for Agricultural Pesticides [40 CFR 170.240(d)(4)]. Mixers and loaders using water-soluble packets must:

- wear the personal protective equipment required above for mixers/loaders, and
- be provided and must have immediately available and must use in an emergency, such as a broken package, spill, or equipment breakdown the following PPE:
  - Coveralls
  - Chemical-resistant footwear
  - A NIOSH-approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH-approved respirator with any N, R, P or HE filter.

Pilots must use an enclosed cockpit in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(6)].

The use of human flaggers is prohibited.

**USER SAFETY RECOMMENDATIONS**

Users should:

1. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
2. Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
3. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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### ENVIRONMENTAL HAZARDS

This pesticide is toxic to birds.

For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

Exposed treated seed may be hazardous to birds and other wildlife. Dispose of all excess treated seed and seed packaging by burial away from bodies of water.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area.

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage, disposal or cleaning of equipment.

**PESTICIDE STORAGE:** Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers. Store in cool, dry place. Protect from excessive heat. Do not contaminate food or foodstuffs. Do not store or transport near feed or food. For help with any spill, leak, fire or exposure involving this material, call Chemtrec 1-800-424-9300.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Open dumping is prohibited.

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available, or dispose of outer bag in a sanitary landfill or by incineration if allowed by state and local authorities.

### CHEMIGATION PROHIBITION

Do not apply this product through any type of irrigation system, except on Cranberries.

### TABLE OF EQUIVALENTS

Rates of Acephate 90SP Per Acre	Acres Treated by a 1 lb Water-Soluble Bag	Acres Treated by a 2.5 lb Water-Soluble Bag
2.5 oz	6.4	16
3.2 oz	5	12.5
3.25 oz	4.9	12.3
0.25 lb	4	10
0.28 lb	3.5	8.9
0.5 lb	2	5
0.56 lb	1.8	4.5
0.8 lb	1.2	3.1
1.0 lb	1	2.5
1.1 lb	0.9	2.3

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.**

**USE RESTRICTIONS**

Not for indoor residential use. For greenhouse use, use is limited to commercial greenhouses for use on tobacco) floatbed application, ornamental, floral, and foliage plants.

For use on turf, use limited to sod farms and golf courses. Aerial application to turf is prohibited.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

For any requirements specific to your State or tribe, consult the Agency responsible for pesticide regulation.

Do not apply with low pressure handwand except when used on ornamental trees, shrubs and floral plants grown for non-agricultural or non-commercial use.

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

1. Coveralls
2. Chemical-resistant gloves made of any waterproof material and
3. Shoes plus socks

**NON-AGRICULTURAL USE REQUIREMENTS**

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, or greenhouses. Do not enter or allow others to enter until sprays have dried.

**DIRECTIONS**

This package contains water soluble packets of Acephate 90SP. Do not handle the packets with wet gloves or allow the packets to become wet prior to addition to the spray tank. If only one packet is used, close and reseal outer container to protect remaining packets.

To prepare spray solution, drop the unopened packet of Acephate 90SP into a spray tank containing at least one-half the desired total quantity of water. Continue to add water with the agitator running until the desired spray volume is reached. Depending on the water temperature and degree of agitation the packet should completely dissolve in approximately 5 minutes.

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### SPRAY DRIFT MANAGEMENT

A variety of factors including weather conditions, (e.g., wind direction, wind speed, temperature, relative humidity) and method of application (e.g., ground, aerial, airblast, chemigation) can influence pesticide drift. The applicator and grower must evaluate all factors and make appropriate adjustments when applying this product.

- All aerial, ground and air-assisted/airblast application equipment must be properly maintained and calibrated using water as carrier. Do not apply this product as an ultra low volume (ULV) spray other than as specified on this label, or in any carrier other than water.
- Use the largest droplet size consistent with good pest control. Small droplets are more prone to spray drift and can be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible, and by avoiding excessive spray boom pressure.
- Do not apply at wind speeds greater than 10 mph at the application site.
- Apply as close to target plants as practical to obtain a good spray pattern for adequate coverage.
- For aerial applications, do not apply at heights greater than 10 feet (consistent with flight safety).
- For airblast applications, direct spray above foliage and turn off outward pointing nozzles at row ends and outer rows.
- For aerial applications, mount the spray boom on the aircraft so as to minimize drift caused by wing tip vortices. Use the minimum practical boom length which must not exceed 75% of wing span or rotor diameter.
- For ground applications, do not apply at heights greater than 4 feet.

Aerial applications to turf are prohibited.

### COTTON

PHI (pre-harvest interval) denotes number of days to harvest.

#### USE RESTRICTIONS:

- Do not use treated seed for food or feed purposes for oil.
- Do not feed treated forage or gin trash to livestock.
- Do not allow animals to graze on treated areas.
- Do not apply more than 4.0 lb ai per acre per crop cycle. This includes all methods of application.
- The maximum single aerial application rate for use in California and Arizona is 1.0 lb ai per acre. For all remaining areas, the maximum single application rate is 0.75 lb ai per acre.

#### COTTON: IN FURROW

By Ground AT-PLANTING APPLICATION: 3 to 5 gal/A of spray

PESTS CONTROLLED	RATES OF ACEPHATE 90SP PER ACRE	FURTHER USE INSTRUCTIONS	Minimum Spray Interval (Days)	PHI
Aphids* Black (Greasy) Cutworm (Except CA) Thrips (Including Western Flower Thrips)  *Excluding Cotton Aphids in AZ & CA	0.56 to 1.1 lb  NOTE: For the Black Lands of Texas use 1.1 lb/A ACEPHATE 90SP	Use flat-fan nozzles for in-furrow application. Align nozzles to ensure good spray deposition into the seed furrow. Cone type nozzles are not recommended since unacceptable spray deposition may occur. Securely fasten spray-system tubing to furrow opener and check frequently to ensure proper positioning and operation. ACEPHATE 90SP can be mixed with fungicides that are sprayed in-furrow for disease control.	N/A	N/A

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**COTTON: FOLIAR – GROUND APPLICATION**

By Ground: Minimum of 10 gal water/A

PESTS CONTROLLED	RATES OF ACEPHATE 90SP PER ACRE	FURTHER USE INSTRUCTIONS	Minimum Spray Interval (Days)	PHI
Thrips (Including Western Flower Thrips)	3.2 oz	Apply when eggs or insects first appear. Repeat application as necessary to maintain control.*	3	21
Plantbugs (Lygus)	0.25 to 1.0 lb 0.5 to 1.1 lb (AZ & CA)	Apply when eggs or insects first appear. Apply 1.0 lb/A for Lygus adults that have migrated into cotton. Repeat application as necessary to maintain control.*	7	21
Fleahopper	0.25 lb	Apply when eggs or insects first appear. Repeat application as necessary to maintain control.*	3	21
Cotton Aphids (Excluding AZ & CA)	0.5 to 1.1 lb	This insect may develop resistance to various classes of insecticides. Consult your local Agricultural Extension Service for current control recommendations. Repeat application as necessary to maintain control.*	7	21
Whitefly (excluding Sweet potato Whitefly/Silverleaf Whitefly)	0.5 to 1.1 lb	Repeat application as necessary to maintain control.*	7	21
Armyworms (excluding Beet Armyworm) Cabbage Looper	1.1 lb	Apply when eggs appear and repeat at 7 day spray intervals.*	7	21
Bollworm Tobacco Budworm Adults Larvae	0.5 to 1.1 lb (East of Rockies) 1.1 lb (AZ & CA)	Early Season: Use 0.5 lb/A for light infestations. Mid and Late Season: Use 0.8 to 1.1 lb/A for moderate to severe infestations.	7	21
Eggs/DEADHATCH®	0.25 to 0.5 lb	Apply when eggs appear and repeat at 7 day spray intervals.* Moths of budworm larvae are controlled by direct contact with spray. Moth kill is most likely to occur when late evening applications are made. DEADHATCH: control of emerging larvae by consumption of treated egg casings.	7	21
Stink Bugs	0.8 lb	Apply when eggs appear and repeat at 7 day spray intervals.*	7	21

PESTS CONTROLLED	RATES OF ACEPHATE 90SP PER ACRE	FURTHER USE INSTRUCTIONS	Minimum Spray Interval (Days)	PHI
Pink Bollworm (AZ & CA)	1.1 lb	Apply when insects appear and repeat at 7 day spray intervals.*	7	21
Cutworms	0.8 lb	Ground application is recommended. Aerial applications are less effective, but may be used. Control is most effective when ground application is made in the evenings and sprays are directed toward the base and lower portion of plant. Apply when insects first appear or damage is first noted and repeat as necessary to maintain control.*	7	21
<b>RESTRICTIONS</b>				
* Not to exceed maximum of 4.0 lb ai per acre per crop cycle.				

**COTTON: FOLIAR – AERIAL APPLICATION**

By Air: Minimum of 1 gallon water/A  
(minimum of 5 gal water/A in AZ & CA)

PESTS CONTROLLED	RATES OF ACEPHATE 90SP PER ACRE	FURTHER USE INSTRUCTIONS	Minimum Spray Interval (Days)	PHI
Thrips (Including Western Flower Thrips)	3.2 oz	Apply when eggs or insects first appear. Repeat application as necessary to maintain control.*	3	21
Plantbugs (Lygus)	0.25 to 0.83 lb 0.5 to 1.1 lb (AZ & CA)	Apply when eggs or insects first appear. Apply the 0.83 lb/A rate for Lygus adults that have migrated into cotton. Repeat application as necessary to maintain control.*	7	21
Fleahopper	0.25 lb	Apply when eggs or insects first appear. Repeat application as necessary to maintain control.*	3	21
Cotton Aphids (Excluding AZ & CA)	0.5 to 0.83 lb	This insect may develop resistance to various classes of insecticides. Consult your local Agricultural Extension Service for current control recommendations. Repeat application as necessary to maintain control.*	7	21
Whitefly (excluding Sweet Potato Whitefly/Silverleaf Whitefly)	0.5 to 0.83 lb 0.5 to 1.1 lb (AZ & CA)	Repeat application as necessary to maintain control.*	7	21

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PESTS CONTROLLED	RATES OF ACEPHATE 90SP PER ACRE	FURTHER USE INSTRUCTIONS	Minimum Spray Interval (Days)	PHI
Armyworms (excluding Beet Armyworm) Cabbage Looper	0.83 lb  0.5 to 1.1 lb (AZ & CA)	Apply when eggs appear and repeat at 7 day spray intervals.*	7	21
Bollworm Tobacco Budworm Adults Larvae	0.5 to 0.83 lb (East of Rockies)  1.1 lb (AZ & CA)	Early Season: Use 0.5 lb/A for light infestations. Mid and Late Season: Use 0.8 to 1.1 lb/A for moderate to severe infestations.	7	21
Eggs/DEADHATCH®	0.25 to 0.5 lb	Apply when eggs appear and repeat at 7 day spray intervals.* Moths of budworm larvae are controlled by direct contact with spray. Moth kill is most likely to occur when late evening applications are made. DEADHATCH: control of emerging larvae by consumption of treated egg casings.	7	21
Stink Bugs	0.8 lb	Apply when eggs appear and repeat at 7 day spray intervals.*	7	21
Pink Bollworm (AZ & CA)	1.1 lb	Apply when insects appear and repeat at 7 day spray intervals.*	7	21
Cutworms	0.8 lb  0.8 to 1.1 lb (AZ & CA)	Ground application is recommended. Aerial applications are less effective, but may be used. Control is most effective when ground application is made in the evenings and sprays are directed toward the base and lower portion of plant. Apply when insects first appear or damage is first noted and repeat as necessary to maintain control.*	7	21
<b>RESTRICTIONS</b> * Not to exceed maximum of 4.0 lb ai per acre per crop cycle.				

**COTTON TANK MIXES**

Always read and follow all label directions when using any pesticide alone or in tank mix combinations. Observe all restrictions and precautions which appear on all product labels. The most restrictive labeling applies when using a tank mix.

**COTTON TANK MIX: FOLIAR**

By Ground: Minimum of 10 gal water/A of spray  
By Air: 3 to 10 gal/A of spray (minimum of 5 gal water/A in CA)

Pests Controlled	ACEPHATE 90SP SOLUBLE POWDER and Tank Mix Partner	AMOUNT OF ACEPHATE 90SP SOLUBLE POWDER + Tank Mix Partner Per Acre	FURTHER USE INSTRUCTIONS	Minimum Spray Interval (Days)	PHI
Sweet potato Whitefly (Silverleaf Whitefly)	ACEPHATE 90SP + DANITOL 2.4 EC Spray	0.5 lb + 10-2/3 to 16 fl oz	Follow all applicable directions, restrictions, and precautions on the EPA registered label for DANITOL 2.4 EC Spray	3	21
Armyworms (excluding Beet Armyworm) Bollworm Cabbage Looper Cotton Aphid Cutworms Fleahopper Grasshoppers Pink Bollworm Plantbugs (Lygus, Mirids) Salt Marsh Caterpillar Thrips (Including Western Flower Thrips) Tobacco Budworm Whitefly (Excluding Sweet potato/ Silverleaf Whitefly)	ACEPHATE 90SP + LORSBAN 4E or CHLORPYRIFOS 4E	0.28 to 1.1 lb (ground) or 0.28 to 0.83 lb (aerial) + 1 to 2 pt.	Follow all applicable directions, restrictions and precautions on the EPA registered label for LORSBAN 4E.  Cutworms: Use of 0.8 lb/A ACEPHATE 90SP  By Ground: Ground application is recommended.  Control is most effective when ground application is made in the evenings and sprays are directed toward the base and lower portion of plant.  By Air: Aerial applications are less effective, but may be used. Apply when insects first appear or when damage is first noted.	7	21

#### RESISTANCE-MANAGEMENT

Cotton pest control programs, especially those for control of silverleaf whitefly populations, should employ a properly designed resistance-management strategy. Such resistance-management strategies include mixture or rotation of alternative classes of chemistry including organophosphates, carbamates, pyrethroids or insect growth regulators. Consult your state or area agricultural extension service for local resistance management strategies and advice on alternative insecticides.

#### COTTON TANK MIXES WITH PYRETHROIDS

Synthetic pyrethroids should be used within the guidelines of state and/or regional resistance management programs and recommendations.

Always read and follow all label directions when using any pesticide alone or in tank mix combinations. Observe all restrictions and precautions which appear on all product labels. The most restrictive labeling applies when using a tank mix.

**COTTON TANK MIXES: FOLIAR**

By Ground: Minimum of 10 gal water/A of spray

By Air: 3 to 5 gal/A of spray (minimum of 5 gal water/A in CA)

Pests Controlled	ACEPHATE 90SP SOLUBLE POWDER and Tank Mix Partner	Amount of ACEPHATE 90SP SOLUBLE POWDER + Tank Mix Partner Per Acre	FURTHER USE INSTRUCTIONS	Minimum Spray Interval (Days)	PHI
Aphids Bollworm Cabbage Looper Cotton Leaf Perforator Cutworms Fall Armyworms Fleahoppers Pink Bollworm (AZ & CA) Plantbugs Stinkbugs Sweet potato/Silverleaf Whitefly Thrips (Including Western Flower Whitefly Thrips) Tobacco Budworm	ACEPHATE 90SP	0.5 to 1.1 lb (ground) or 0.5 - 0.83 lb (aerial)	Apply when eggs or insects first appear.  Stink Bugs: Use 0.8 lb/A of Acephate 90SP. *Cutworms: Use 0.8 lb/A of ACEPHATE 90SP.  By Ground: Ground application is recommended. Control is most effective when ground application is made in the evenings and sprays are directed toward the base and lower portion of plant.  By Air: 3 to 10 gal/A spray (minimum 5 gal/A in CA) Aerial applications are less effective, but may be used. Apply when eggs or insects first appear or damage is first noted.  Repeat as necessary to maintain control.*	7	21
	+	+			
	one of the following	one of the following			
	AMBUSH® 2EC	Refer to the AMBUSH 2EC approved label for use instructions.			
	AMMO® 2.5EC*	Refer to the AMMO 2.5EC approved label for use instructions.			
	ASANA® XL*	Refer to the ASANA XL approved label for use instructions.			
	BAYTHROID® 2EC	Refer to the BAYTHROID 2EC approved label for use instructions.			
	CAPTURE® 2EC	Refer to CAPTURE 2EC approved label for use instructions.			
	CYMBUSH 3EC	Refer to CYMBUSH 3EC approved label for use instructions			
	KARATE 1E (Except CA)	Refer to the KARATE 1E approved label for use instructions.			
	PYDRIN 2.4EC	Refer to the PYDRIN 2.4EC approved label for use instructions.			
POUNCE 3.2EC	Refer to the POUNCE 3.2EC approved label for use instructions.				
SCOUT X-TRA® (Except CA)	Refer to the SCOUT X-TRA approved label for use instructions.	28			

**RESTRICTIONS**

\*Do not apply more than 4 lb ai/A per season, this includes all methods of application. Including the use of PAYLOAD 15 Granular as an in-furrow at planting treatment, all foliar spray, liquid in-furrow application and seed treatment uses.

**RESISTANCE MANAGEMENT**

Cotton pest control programs, especially those for control of silverleaf whitefly populations, should employ a properly designed resistance-management strategy. Such resistance-management strategies include mixture or rotation of alternative classes of chemistry including organophosphates, carbamates, pyrethroids or insect growth regulators. Consult your state or area agricultural extension service for local resistance management strategies and advice on alternative insecticides.

**FIELD CROPS**

PHI (pre-harvest interval) denotes number of days to harvest.

CROP	INSECTS	AMOUNT ACEPHATE 90SP PER ACRE	FURTHER USE INSTRUCTIONS	Minimum Spray Interval (Days)	PHI
Peppermint, Spearmint	Alfalfa looper, Cutworm, Aphids	1.11 lb	Use a minimum of 20 (ground) or 5 (aerial) gal of water/A. Initial application should be made when eggs or insects first appear.  RESTRICTIONS: The grazing of animals on treated areas and the feeding of spent mint hay to animals are prohibited. Do not apply more than 2.0 lb ai (2.22 lb product) per acre per season. Maximum of 2 applications per crop season.	7	14
Peanuts	Grasshoppers	0.28 - 0.55 lb	Apply in water at 10 to 50 gal spray per acre by ground or in 5 to 10 gal spray per acre by air. Begin applications when insects first appear and repeat as needed to maintain control.*  RESTRICTIONS Do not feed treated forage or hay to livestock or allow animals to graze treated areas.  *Do not apply more than 4.0 lb ai (4.44 lb product) per acre per crop cycle, this includes all methods of application.	7 (for postemergence, foliar, ground/aerial)	14 (of digging)
	Thrips	0.55 - 0.83 lb			
	Corn earworms, Fall armyworms, Leafhopper, Loopers, Velvetbean Caterpillar	0.83 - 1.11 lb			
Soybeans	Grasshopper, Thrips	0.28 - 0.56 lb	<b>By Air:</b> 5 to 10 gal/A of spray	0.5 lb ai/A and less: 3 days  greater than 0.5	14
	Potato Leafhopper, Stinkbugs	0.56 - 1.1 lb	<b>By Ground:</b> 10 to 50 gal/A of spray		

CROP	INSECTS	AMOUNT ACEPHATE 90SP PER ACRE	FURTHER USE INSTRUCTIONS	Minimum Spray Interval (Days)	PHI
	Armyworms (except Beet), Bean Leaf Beetle, Cabbage Looper, Green Cloverworm, Mexican Bean Beetle, Soybean Aphid, Three-cornered Alfalfa Hopper, Velvetbean Caterpillar	0.83 – 1.1 lb	<p><b>RESTRICTIONS</b>                      Do not graze or cut vines for hay or forage.</p> <p>Do not apply more than 1.5 lb ai/A of Acephate 90SP per season.</p> <p>Always read and follow all label directions, restrictions, and precautions when using any pesticide alone or in tank mix combinations.</p> <p>The most restrictive labeling applies when using a tank mix.</p>	lb ai/A: 7 days	

**TOBACCO**  
**TOBACCO TRANSPLANT WATER APPLICATION**  
 (Use Prohibited in CA)

CROP	INSECTS	AMOUNT ACEPHATE 90SP PER ACRE	FURTHER USE INSTRUCTIONS
Tobacco	Flea Beetle, Green Peach Aphid, Tobacco Aphid, Cutworms, Tobacco Thrips	0.83 lb	<p>Provides control of early season flea beetles, green peach aphids, tobacco aphids, and cutworms for approximately 3 to 4 weeks after transplanting. For later season control of these insects, apply a foliar spray of ACEPHATE 90SP.</p> <p>Apply in a minimum of 100 gal of water per acre.</p> <p><b>RESTRICTIONS</b>                      Do not apply more than 0.8 lb ACEPHATE 90SP per acre as a transplant water application as some phytotoxicity may occur.</p> <p>Do not apply more than 0.75 lb ai per acre per year.</p>
<p><b>RESTRICTIONS</b>                      Make transplant-water applications using mechanical transplant equipment only. Using such equipment, the insecticide/water mixture is mechanically applied directly into the soil along with the transplanted plants.                      Do not apply more than 4 lb ai per acre per season. This includes all methods of application.</p>			

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**TOBACCO FOLIAR APPLICATION**

(Use Prohibited in CA)

PHI (pre-harvest interval) denotes number of days to harvest.

CROP	INSECTS	AMOUNT ACEPHATE 90SP PER ACRE	FURTHER USE INSTRUCTIONS	PHI
Tobacco (Flue-Cured, Air Cured, Dark Fire Cured)	Grasshoppers	0.28 - 0.83 lb	Apply in 10 to 50 gal water per acre with ground equipment or a minimum of 3 gal per acre by air.  Apply spray at a minimum of 7 days if necessary to maintain control.  RESTRICTIONS  Do not apply more than 4 lb ai per acre per season. This includes all methods of application.	3
	Green Peach Aphid, Flea Beetle, Hornworm, Tobacco Thrips	0.55 - 0.83 lb		
	Tobacco Aphid, Vegetable Weevils, Stinkbugs	0.55 - 0.83 lb		
	Budworm, Cabbage Looper, Cutworm	0.83 lb		

**TOBACCO PLANT BED APPLICATION**

(Use Prohibited in CA)

CROP	INSECTS	AMOUNT ACEPHATE 90SP PER ACRE	FURTHER USE INSTRUCTIONS
Tobacco Bed Treatment	Flea Beetle, Green Peach Aphid, Tobacco Aphid, Cutworm	0.83 lb	Apply to foliage at the rate of 1 gal of diluted product per every 1,000 sq ft of bed. Prepare diluted product by adding 1 lb Acephate 90SP to 43.5 gallons of water. Apply evenly to ensure thorough coverage.  Apply spray at a minimum of 7 days if necessary to maintain control.  RESTRICTIONS  Do not apply more than 4 lb ai per acre per season. This includes all methods of application.

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**TOBACCO FLOATBED/GREENHOUSE APPLICATION**

(Use Prohibited in CA)

CROP	INSECTS	AMOUNT ACEPHATE 90SP PER ACRE	FURTHER USE INSTRUCTIONS
Tobacco	Cutworm, Flea beetle, Green Peach Aphid, Tobacco Aphid	0.83 lb	Apply to foliage at the rate of 3 gal of diluted product per every 1,000 sq ft of bed. Prepare diluted product by adding 1 lb Acephate 90SP in 130.7 gallons of water. Apply evenly to ensure thorough coverage. NOTE: Floatbed water should be disposed of in the transplanted field through the transplant water or through foliar spray.  Apply spray at a minimum of 7 days if necessary to maintain control. <b>RESTRICTIONS</b> Do not apply more than 4 lb ai per acre per season. This includes all methods of application.

**CRANBERRIES**

PHI (pre-harvest interval) denotes number of days to harvest.

CROP	INSECTS	AMOUNT ACEPHATE 90SP PER ACRE	FURTHER USE INSTRUCTIONS	Minimum Spray Interval (days)	PHI
Cranberries	Cranberry Blossom Worm, Gypsy Moth, False Armyworm, Fireworms, Spanworms, Sparganothis	1.11 lb	Apply using sufficient water to achieve thorough coverage (ground) or in a minimum of 2 gal of water/A (aerial). Do not apply from start of bloom until all berries have set. When applied via irrigation system, only sprinkler type irrigation equipment can be used.  Apply in water by air, ground or with sprinklers.  <b>RESTRICTIONS</b> Limit to one application per growing season.  Do not apply more than 1.0 lb ai (1.11 lb product) per acre per crop cycle.	N/A	90

**SPRINKLER IRRIGATION APPLICATION TO CRANBERRIES**

Apply to cranberries only by sprinkler irrigation systems. Do not apply by chemigation to any other crop, or this crop using any other type of irrigation system.

For overhead chemigation, apply only when wind speed is 10 mph or less.

This product may only be applied through sprinkler irrigation systems including center pivot, lateral move, end tow, side (wheel) roll, travelers, big gun, solid set, or hand move. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop may result from non-uniform

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distribution of treated water.

If you have questions about calibration, contact State Extension Service specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the label-prescribed safety devices for public water supplies are in place.

A person knowledgeable of the chemigation system and responsible for its operation shall shut the system down and make necessary adjustments should the need arise.

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, normally closed solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

System must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

**Solid Set Systems:** Apply specified dosage for the entire length of the irrigation period or for a 30 to 60 minute period at the end of a regular irrigation set or as a 30 to 60 minute injection as a separate application not associated with a regular irrigation. Allow time for all lines to flush the pesticide through all nozzles before turning off irrigation water. To ensure the lines are flushed and free of remaining pesticide, a dye indicator may be injected into the line to mark the end of the application period.

**Center Pivot Systems:** Inject the specified dosage per acre continuously for one complete revolution of the system.

Constant agitation must be maintained in the chemical supply tank during the entire period of insecticide application. Inject the product with a positive displacement pump into the main line ahead of a right angle turn to ensure adequate mixing.

Application of more than label specified quantities of irrigation water per acre may result in decreased product performance by removing the chemical from the zone of effectiveness.

### VEGETABLE CROPS

PHI (pre-harvest interval) denotes number of days to harvest.

CROPS	INSECTS	AMOUNT ACEPHATE 90SP PER ACRE	FURTHER USE INSTRUCTIONS	Minimum Spray Interval (Days)	PHI
Beans & Lima Beans  (Dry & Succulent Forms) Except Succulent Green Beans Unless Grown for Seed Only	Fleahoppers, Grasshoppers	0.28 - 0.55 lb	Apply using a minimum of 20 (ground) or 2 (aerial) gal of water/A. Initial application should be made when eggs or insects first appear.  Apply 1.11 lb/A to control severe insect infestations.  <b>RESTRICTIONS</b>  The feeding of treated vines to livestock is prohibited.  Do not apply more than 2.0 lb ai (1.22 lb product) per acre per crop cycle.  Use on succulent green beans as a food crop is prohibited (includes string beans, snap beans, and wax beans). Succulent green bean use is permitted <b>ONLY</b> if grown for seed.	7	14 (dry beans)
	Aphids, Beanleaf Beetle, Bean Leafroller, Cabbage Looper, Cutworms, Green Cloverworm, Leafhoppers, Mexican Bean Beetle, Plantbugs (Lygus), Soybean Looper, Thrips, Whitefly	0.55 to 1.11 lb		7	1 (lima beans succulent forms)
	Armyworms, Corn Earworm, European Cornborer	0.83 - 1.11 lb			

#### Restrictions for Succulent Green Beans Grown for Seed

- Do not feed crop residues to livestock or allow animals to graze treated areas.
- Do not apply to succulent beans grown for fresh market or processing.
- No portion of the succulent bean plant may be used or distributed for food or feed purposes.
- Seeds grown from succulent beans shall bear a tag or container label which forbids use of the seed for human consumption or animal feed.
- Seeds grown from succulent beans may not be distributed for human consumption or animal feed.

CROPS	INSECTS	AMOUNT ACEPHATE 90SP PER ACRE	FURTHER USE INSTRUCTIONS	Minimum Spray Interval (Days)	PHI
Brussels Sprouts, Cauliflower	Green Peach Aphid	0.55 – 1.11 lb	Apply using a minimum of 25 (ground) or 5 (aerial) gal of water/A. Initial application should be made when eggs or insects first appear.  RESTRICTIONS The feeding of treated trimmings or the grazing of livestock in treated areas is prohibited.  Do not apply more than 2.0 lb ai (2.22lb product) per acre per crop cycle.  Spray per acre by air. Use the higher specified rate within the rate range when heavy infestations of aphids are present.	7	14
	Cabbage Looper, Diamondback Moth, Imported Cabbageworm	1.11 lb			
Celery	Green Peach Aphid	0.55 to 1.11 lb	Apply using a minimum of 50 (ground) or 5 (aerial) gal of water/A. Initial application should be made when eggs or insects first appear.  RESTRICTIONS All celery must be trimmed (tops removed) before shipment. The use of treated tops for food/feed is prohibited.  Do not apply more than 2.0 lb ai (2.22 lb product) per acre per crop cycle.	7	21
	Beet & Fall Armyworm, Cabbage Looper	1.11 lb		7	21
Head Lettuce (Crisphead Type Only)	Aster Leafhopper, Green Peach Aphid	0.55 – 1.11 lb	Apply using a minimum of 10 (ground) or 5 (aerial) gal of water/A. Applications may be made in spring, summer, and early fall in all areas; winter	7	21

	Cabbage Looper, Armyworm (excluding beet armyworm)	1.11 lb	<p>applications may be made in AZ, CA, FL, and TX; and late fall applications may be made in AZ. Do not make applications after first head begins to form in crops which germinate from mid-September through November in the desert areas of AZ and CA.</p> <p><b>RESTRICTIONS</b></p> <p>The feeding of trimmings to livestock, and the grazing of animals on treated areas are prohibited.</p> <p>Maximum of 5 applications per crop season.</p> <p>Do not apply more than 2.0 lb ai (2.22 lb product) per acre per crop cycle.</p>		
Peppers (non-Bell type)	Aphids	0.55 lb	<p>Use limited to Midwestern and Eastern states and to PR. Not for use in the following states: Washington, Oregon, Idaho, Montana, Wyoming, California, Nevada, Arizona, New Mexico, Colorado, or Utah.</p> <p>Apply using a minimum of 40 gal of water/A.</p> <p><b>RESTRICTIONS</b></p> <p>Maximum of 2 applications per crop season.</p> <p>Do not apply more than 1.0 lb ai (1.11 lb product) per acre per crop cycle.</p>	3	7
Peppers (Bell type)	Grasshoppers	0.28 – 1.11 lb	<p>Apply using a minimum of 25 (ground), 3 (aerial), or 5 (aerial in CA) gal of water/A. Initial application should be made when eggs or insects first appear.</p> <p><b>RESTRICTIONS</b></p> <p>Do not apply more than 2.0 lb ai (2.22 lb product) per acre per crop cycle.</p>	7	7
	Cabbage Looper, Green Peach Aphid, Tobacco Hornworm	0.55 – 1.11 lb			
	European Cornborer	0.83 – 1.11 lb			

**NON-BEARING CITRUS**

PHI (pre-harvest interval) denotes number of days to harvest.

CROPS	INSECTS	AMOUNT ACEPHATE 90SP PER ACRE	FURTHER USE INSTRUCTIONS	Minimum Spray Interval (Days)	PHI
CITRUS (Non-bearing)	Aphids Grasshoppers Katydid Mealybugs Orangedogs Plantbugs Thrips Whiteflies (except Sweet potato/ Silverleaf)	1.11 lb	Apply using a minimum of 100 gal of water/A by ground equipment. Initial spray application should be made to individual juvenile or non-bearing trees when eggs or insects first appear.  RESTRICTIONS The grazing of livestock on treated areas and the harvesting of citrus fruits for one year after treatment are prohibited.	7	N/A

**SPECIALTY USES**

CROP	INSECTS	AMOUNT ACEPHATE 90SP PER ACRE	USE INSTRUCTIONS
Non-crop Areas (field borders, fencerows, roadsides, ditchbanks and borrow pits)	Grasshoppers	0.28 lb	Apply using a minimum of 10 (ground), 1 (aerial), or 5 (aerial in CA) gallons of water per acre.  RESTRICTIONS The grazing or feeding of vegetation cut from treated areas is prohibited.

**NON-CROP AREAS (Wasteland)**

APPLICATION METHOD	INSECTS	AMOUNT ACEPHATE 90SP PER ACRE	USE INSTRUCTIONS
Foliar Ground/ aerial	Black Grass Bugs, Grasshoppers, Mormon Crickets	1.6 to 2.2 oz	Apply using a minimum of 10 (ground), 0.5 (aerial), or 5 (aerial in CA) gal of water/A.  RESTRICTIONS The grazing or feeding of vegetation cut from treated areas is prohibited.

## CONTAINER GROWN NURSERY STOCK

PLANTS	INSECTS	AMOUNT ACEPHATE 90SP PER 100 GAL	TIME OF APPLICATION	USE INSTRUCTIONS
Container Grown Nursery Stock (Arborvitae, Azalea, Camelia, Rhododendron, Roses, Viburnum, Yew)	Black Vine Weevil, Strawberry Root Weevil	0.63 lb	Thorough drench application of liquid formulation should be made by mid-September for greenhouse stock and by mid-October for outdoor stock. Consult your local county extension agent for information on the identification and control of root weevils on ornamentals.	Apply the specified amount of ACEPHATE 90SP per 100 gal of solution so as to thoroughly drench the root system.
	Ants (except fire, harvester, carpenter and pharaoh)	0.63 lb	Apply as needed to control the pest.	

**ORNAMENTAL TREES & SHRUBS**

PLANTS	INSECTS	AMOUNT ACEPHATE 90SP PER 100 GAL	TIME OF APPLICATION	Minimum Spray Interval (Days)	USE INSTRUCTIONS
Trees and Shrubs (except Flowering Crabapple and Douglas Fir, see below)	Aphids, Bagworms, Birch Leafminer, Tent Caterpillar*, Lace Bugs, Leafrollers	0.28 lb - 1.11 lb (4.4 - 17.7 oz)	As the insects or damage first appear.	Rates ≤ 0.5 lb ai/A = 3 days Rates > 0.5 lb ai/A = 7 days	Apply the specified amount of ACEPHATE 90SP in 100 gal water with a hydraulic sprayer. The addition of a suitable sticker improves control of Gypsy Moth larvae. <b>RESTRICTION</b> Do not apply by low pressure handwand.
	Douglas Fir Tussock, Moth Larvae, Gypsy Moth Larvae*, Webworms	0.55 - 1.11 lb (8.7 - 17.7 oz)	As insects begin to appear.		*Mist blower application. Adjust rates to 1.11 lb per 100 gal water for Gypsy Moth control and 0.83 lb per 100 gal water for Tent Caterpillar control. Application to Huckleberry, Balm of Gilead, Cottonwood, Lombardy Poplar and Viburnum suspensum may result in flower damage.
	Scales (Crawlers)	0.55 - 1.11 lb (8.7 - 17.7 oz)	As crawlers begin to appear. Repeat applications, at a 2 week or more interval, may be necessary where there is continuous crawler production.		Nursery crops. Before treating large plantings, spray only a few plants and observe two weeks for phytotoxicity.
	Ponderosa Pine Needle Miner	0.55 - 1.11 lb (8.7 - 17.7 oz)	Time of application is important. Consult your Farm Advisor or County Extension Agent.		Apply the specified amount of ACEPHATE 90SP in 100 gal water with a hydraulic sprayer as a full coverage spray.
	Grasshoppers	0.55 - 1.11 lb (8.7 - 17.7 oz)	As the grasshoppers begin to appear		
	California Oakworm, Cankerworms (Spring & Fall)	0.28 - 1.11 lb	As the insects begin to appear. Apply 1.11lb/100 gal when the larger larvae are present.		Rates ≤ 0.5 lb ai/A = 3 days Rates > 0.5 lb ai/A = 7 days

PLANTS	INSECTS	AMOUNT ACEPHATE 90SP PER 100 GAL	TIME OF APPLICATION	Minimum Spray Interval (Days)	USE INSTRUCTIONS
	Nantucket Pine Tip Moth Larvae	1.11 lb (17.7 oz)	Time of application is important. Consult your Farm Advisor or County Extension Agent. Repeat applications will be required for subsequent generations.		
	Root Weevil Adults	1.11 lb (17.7 oz)	Apply when first feeding damage occurs. Repeat applications at four week intervals until the first heavy frost, may be necessary for complete foliage protection.		Apply the specified amount of ACEPHATE 90SP in 100 gal water with a hydraulic sprayer as a full coverage spray.
	Box Elder Bugs, Sawflies, Budworms, Leafhoppers	1.11 lb (17.7 oz)	As the insects begin to appear.		Apply the specified amount of ACEPHATE 90SP in 100 gal water with a hydraulic sprayer as a full coverage spray.
	Japanese Beetle	1.11 lb (17.7 oz)	As the Japanese Beetles begin to appear. Repeat applications, at 2 week intervals, may be necessary.		
	Elm Leaf Beetle (larvae)	1.11 lb (17.7 oz)	As the larvae begin to appear. ACEPHATE will not prevent Elm Leaf Beetle eggs from hatching.		

PLANTS	INSECTS	AMOUNT ACEPHATE 90SP PER 100 GAL	TIME OF APPLICATION	Minimum Spray Interval (Days)	USE INSTRUCTIONS
Douglas Fir, Christmas Trees	Douglas Fir Needle Midge	0.55 lb (8.7 oz)	Application should be made no more than 2 weeks prior to bud burst. For additional pest management information, consult your county extension service.	N/A	Apply using a minimum of 100 (ground) or 2 (aerial) gal of water/A. Application should be made no more than 2 weeks prior to bud burst. RESTRICTIONS Do not apply by low pressure handwand. Maximum of 1 application per crop season. Do not apply more than 0.55 lb product per acre per crop cycle.
Flowering Crabapples	Aphids, Tent Caterpillars, Leafrollers	0.28 lb (4.4 oz)	As the insects begin to appear.	28	Apply the specified amount of ACEPHATE 90SP in 100 gal water with a hydraulic sprayer. RESTRICTIONS Do not apply more often than 3 times in a growing season. Note: Phytotoxicity has occurred on the following Crabapple varieties: Hopa, Ichonoski, Malusfloribunda, Pink Perfection, Red Wine and Snow Cloud. Do not apply by a low pressure handwand.
Crepe Myrtle	Aphids	1 lb (16 oz) per 16 gal of water	As aphids begin to appear.	N/A	Make a paint-on slurry to the trunk in a band 6-12 inches above the ground by mixing the specified amount of ACEPHATE 90SP. Remove the loose bark from the trunk areas to be treated. Completely paint a band around each trunk to a width twice its diameter. Apply to trunks within a zone 6 to 12 inches above the ground and below the point where branching begins. For multi-trunk plants be certain to treat all trunks. For either single or multi-trunk plants, apply as low as possible within the treatment zone.

**COMMERCIAL TURFGRASS  
(Golf Course Turf Only)**

**USE RESTRICTIONS:**

DO NOT ALLOW LIVESTOCK TO GRAZE TREATED AREAS. DO NOT FEED TREATED GRASS TO LIVESTOCK.

Use limited to golf courses.

Aerial applications to turf are prohibited.

NOT FOR USE ON RESIDENTIAL LAWNS

PLANTS	INSECTS	AMOUNT ACEPHATE 90SP PER 1,000 SQ FT	TIME OF APPLICATION	USE INSTRUCTIONS
Turfgrass	Fall Armyworm, Yellow Striped Armyworm, Southern Armyworm	0.4 to 1.0 oz (1.11 to 2.71 lb per acre)	As the insects appear. A repeat application at 2 week intervals may be necessary.	Apply the specified amount of ACEPHATE 90SP per 1,000 sq ft.  Use a minimum of 5 gal water per 1,000 sq ft to obtain good coverage.
	Cutworm	1.0 to 1.6 oz (2.71 to 4.44 lb per acre)		
	Chinch bugs	1.0 to 1.6 oz (2.71 to 4.44 lb per acre)	Apply as needed for adult population knockdown (10 to 14 days)	Apply the specified amount of ACEPHATE 90SP per 1,000 sq ft.  Use 1 to 15 gal water per 1,000 sq ft to obtain good coverage.
	Sod Webworm (Crambus spp)	0.4 to 0.8 oz (1.11 to 2.22 lb per acre)	As sod webworms begin to appear. Apply 0.8 oz/1,000 sq ft when quick knockdown is needed or with heavy infestations. Repeat application may be necessary. Do not repeat at more than 1 week intervals.	Apply the specified amount of ACEPHATE 90SP per 1,000 sq ft.  Use 1 to 15 gal water per 1,000 sq ft to obtain good coverage.
	Leafhopper	0.8 oz (2.22 lb per acre)	As the leafhoppers begin to appear. A repeat application at 1 week intervals may be necessary.	Apply the specified amount of ACEPHATE 90SP per 1,000 sq ft.  Use 1 to 15 gal water per 1,000 sq ft to obtain good coverage.

PLANTS	INSECTS	AMOUNT ACEPHATE 90SP PER 1,000 SQ FT	TIME OF APPLICATION	USE INSTRUCTIONS
	Mole Crickets (Except CA)	0.8 to 1.6 oz (2.22 – 4.44 lb per acre)	As mole crickets begin to appear. For knockdown of existing populations, more than one application may be required throughout the growing season. For heavy infestations, 1.6 oz/1,000 sq ft rate.	Apply the specified amount of ACEPHATE 90SP per 1,000 sq ft.  Use 1 to 15 gal water per 1,000 sq ft to obtain good coverage.
	Mole Crickets (Except CA) (continued)	0.8 to 1.6 oz (2.22-4.44 lb per acre)	Refer to directions on previous page.	Apply during late afternoon or early evening hours and after irrigation. Do not irrigate after application. The use of a lemon fragrance substance in the spray mix may enhance control by acting as a flushing agent and thus provide increased mole cricket contact with the ACEPHATE 90SP. The following lemon-scented products have been shown to be effective flushing agents. Lemon Joy, Lemon Palmolive and Might Myrt Products Manufacturer- Base Pure Lemon Fragrance. The use rate for these lemon-scented products is 2 teaspoons per gallon of water for small total mix volumes or 5 fl oz per 50 gal of water for a large total mix volume.
	Greenbug (Schizaphis graminun), Grasshoppers	0.4 oz (1.11 lb per acre)	Apply when insects or their damage first appear. Repeat as necessary. Application is not to be repeated at more than 1 week intervals.	Apply the specified amount of ACEPHATE 90SP per 1,000 sq ft.  Use 4 to 15 gal water per 1,000 sq ft to obtain good coverage. Do not mow turfgrass for at least 24 hours after application.
Dichondra (golf course)	Cutworm, Flea Beetle,	0.8 to 1.6 oz (2.2 to 4.44 lb per	As the insects appear. Repeat at 2 week	Apply the specified amount of ACEPHATE 90SP per

PLANTS	INSECTS	AMOUNT ACEPHATE 90SP PER 1,000 SQ FT	TIME OF APPLICATION	USE INSTRUCTIONS
turf only)	Southern Armyworm, Yellow Striped Armyworm	acre)	intervals as necessary.	1,000 sq ft Use a minimum of 15 gal water per 1,000 sq ft to obtain good coverage.

**OUTDOOR WASP AND PERIMETER SPRAY**

**USE RESTRICTIONS:**

Not for use on residential turf.

The use of low pressure handwand equipment for perimeter or wasp treatments is prohibited.

LOCATION	INSECTS	AMOUNT ACEPHATE 90SP PER GALLON	TIME OF APPLICATION	USE INSTRUCTIONS
Outdoor wasp and perimeter area	Wasps	1.6 oz (0.10 lb)	Treat early or late in the day, as wasps are generally less active during these times.	Apply the specified amount of ACEPHATE 90SP per each gallon of water used. Apply as a spot treatment to the nest, nest entrance, and surrounding areas where the wasps alight.
	Cockroaches, Ants (excluding fire, harvester, carpenter and pharaoh ants), Pillbugs, Earwigs (Perimeter treatment)	1.6 oz (0.10 lb)	As the insects appear	Apply specified amount of ACEPHATE 90SP per each gallon of water used. Apply to a band of soil 6 to 10 feet adjacent to the structure and to a height of 2 to 3 feet on the foundation where pests may be active or may find entrance. Also apply as a residual spray or with a paint brush to surfaces of buildings, window frames, shutters, entry-ways, screens, eaves, patios, garages, carports, around garbage areas and other areas where these pests congregate.

**OUTDOOR FLORAL CROPS AND GROUND COVERS**

PLANTS	INSECTS	AMOUNT ACEPHATE 90SP PER 100 GAL	TIME OF APPLICATION	USE INSTRUCTIONS
Daisies, Dahlias, Easter Lily, Gladioli, Gyposophila, Pachysandra, Peony, Roses, Sedum, Statice, Strawflower, Yarrow, Zinnia	Aphids, Thrips, Lygus,	0.55 lb (8.7 oz)  Single application rate not to exceed 0.75 lb ai/A for cut flowers and 1.0 lb ai/A for all other plants	As insects begin to appear. Repeat applications may be necessary.	Apply the specified amount of ACEPHATE 90SP in 100 gal water with a hydraulic sprayer as a full coverage spray. Multiple applications may cause slight tip burn or marginal leaf necrosis on some varieties. Test on a few plants to determine varietal susceptibility.
Roses, Boston Ivy	Japanese Beetle	1.11 lb (17.7 oz)  Single application rate not to exceed 0.75 lb ai/A for cut flowers and 1.0 lb ai/A for all other plants	As the Japanese Beetles begin to appear. Repeat applications at 2 week intervals may be necessary.	

**COMMERCIAL GREENHOUSE FLORAL AND FOLIAGE PLANT CROPS**

**USE RESTRICTIONS:**

Do not apply more than 0.83 lb ai (13.3 oz product) per acre per 100 gallons of water (not to exceed 0.75 lb ai (0.83 lb product) per acre for cut flowers and 0.83 lb ai (13.3 oz product) per acre for all other ornamentals).

Do not apply under conditions involving possible drift to food, forage or other plantings that might be damaged or the crops thereof rendered unfit for sale, use or consumption.

PLANTS	INSECTS	AMOUNT ACEPHATE 90SP PER 100 GAL	TIME OF APPLICATION	USE INSTRUCTIONS
Roses	Leafrollers	0.55 to 0.83 lb (8.7 to 13.3 oz)	As leafrollers begin to appear. Apply 0.83 lb/100 gal when the large larvae are present.	Apply the specified amount of ACEPHATE 90SP in 100 gal water with a hydraulic sprayer as a full coverage spray.

PLANTS	INSECTS	AMOUNT ACEPHATE 90SP PER 100 GAL	TIME OF APPLICATION	USE INSTRUCTIONS
Foliage Plants, Orchids, Anthuriums, Cacti, Poinsettia.	Aphids	0.28 lb (4.3 oz)	As aphids begin to appear.	Apply the specified amount of ACEPHATE 90SP in 100 gal water with a hydraulic sprayer as a full coverage spray. The addition of a wetting agent may be required on difficult to wet foliage.
	Mealybugs, Thrips, Whiteflies	0.55 lb (8.7 oz)	As the insects begin to appear. A repeat application, at a 2 week interval, may be necessary for control of mealybugs and whiteflies.	Note: Phytotoxicity has occurred on the following foliage plants: Bletchum gibbum, Cissus antarctica, Ficus triangularis, Fittonia verschaffeltii, Maranta leuconeura kerchoveana, Pachystachya lutea, Plectranthus australis, Polypodium aureus, Polystichum, Pteris ensiformis, Tolmiea menziesii. Before treating large plantings spray only a few plants and observe 2 weeks for varietal phytotoxicity. Applications of ACEPHATE 90SP on Poinsettias after bract formation may result in phytotoxicity on certain varieties.
	Scales (crawlers)	0.55 lb (8.7 oz)	As crawlers begin to appear. Repeat applications, at a 2 week or more interval, may be necessary where there is continuous crawler production.	
	Sweet Potato Whiteflies, (except CA and NY)	0.28 lb (4.3 oz) plus 10 2/3 fl oz (0.2 lb ai) TAME 2.4 EC Spray	Apply when insects first appear. If a population is well established, make one application of the tank mix and follow 5 to 7 days later with TAME alone at 16 fl oz/100 gal. See TAME label for instructions.	

PLANTS	INSECTS	AMOUNT ACEPHATE 90SP PER 100 GAL	TIME OF APPLICATION	USE INSTRUCTIONS
Roses, Carnations, Chrysan- themums	Aphids, Thrips	0.55 lb (8.7 oz)	As aphids begin to appear. As thrips begin to appear or at the right flower bud stage. Repeat applications may be necessary.	<p>Apply the specified amount of ACEPHATE 90SP in 100 gal water with a hydraulic sprayer as a full coverage spray.</p> <p>Note: Phytotoxicity has occurred on the following Chrysanthemum varieties: Albatross, Bonnie Jean, Dixie, Garland, Gent, Iceberg, Pride, Showoff, Statesman, Tally Ho, Westward Ho, and Wild Honey. Before treating large Chrysanthemum plantings, spray only a few plants and observe two weeks for varietal phytotoxicity.</p> <p>Application to Chrysanthemums and Roses with open flowers may result in phytotoxicity.</p> <p><b>RESTRICTIONS</b> Do not apply more often than once every 28 days to Carnations and Chrysanthemums.</p>

NOTE: This product is sold by weight and package is full when packed but due to fluffy nature this material is inclined to settle.

**Warranty and Disclaimer Statement**

The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Such risks may arise from weather conditions, soil factors, off-target movement, unconventional farming techniques, the presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of Arysta LifeScience North America, LLC ("Arysta"), and can cause crop injury, injury to non-target crops or plants, ineffectiveness of the product, or other unintended consequences. All such risks shall be assumed by the user or buyer. Arysta warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions. This warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to Arysta, and is subject to the inherent risks described above.

**TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ARYSTA DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ARYSTA, MANUFACTURER, AND SELLER DISCLAIM AND SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE, HANDLING, APPLICATION, STORAGE, OR DISPOSAL OF THIS PRODUCT OR FOR DAMAGES IN THE NATURE OF PENALTIES, AND THE USER AND BUYER WAIVE ANY RIGHT THAT THEY MAY HAVE TO SUCH DAMAGES. NO AGENT, REPRESENTATIVE OR EMPLOYEE OF ARYSTA IS AUTHORIZED TO MAKE ANY WARRANTY, GUARANTEE OR REPRESENTATION BEYOND THOSE CONTAINED HEREIN OR TO MODIFY THE WARRANTIES CONTAINED HEREIN.**

**TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE TOTAL LIABILITY OF ARYSTA, MANUFACTURER, AND SELLER, SHALL BE LIMITED TO THE PURCHASE PRICE PAID, OR AT ARYSTA'S ELECTION, THE REPLACEMENT OF THE PRODUCT.**

- ®AMBUSH - Reg. TM of ICI Agricultural Products for permethrin insecticide.
- ®AMMO - Reg. TM of FMC Agri Chemical Group for cypermethrin insecticide.
- ®ASANA - Reg. TM of E.I. duPont de Nemours & Co. for esfenvalerate insecticide.
- ®BAYTHROID - Reg. TM of Mobay Corp. for cyfluthrin synthetic pyrethroid.
- ®CAPTURE - Reg. TM of FMC Agri Chemical Group for bifenthrin insecticide miticide.
- ®CYMBUSH - Reg. TM of ICI Agricultural Products for cypermethrin insecticide.
- ®KARATE - Reg. TM of ICI Agrochemicals Co. U.K. for lambdacyhalothrin insecticide.
- ®POUNCE - Reg. TM of FMC Agri Chemical Group for permethrin insecticide.
- ®PYDRIN - Reg. TM of E.I. duPont de Nemours & Co., Inc. for fenvalerate insecticide
- ®SCOUT - Reg. TM of Hoechst-Roussel Agri-Vet Co. for tralomethrin pyrethroid insecticide.

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